Exam. Code : 108204

Subject Code : 2769

B.Sc. (Home Science) 4th Semester

DEVELOPMENTAL STAGES TILL OLD AGE

Paper-I

Time Allowed—3 Hours]   [Maximum Marks—50

Note :– Attempt any **five** questions. Question No. 1 is compulsory. Each question carries **10** marks.

1. Write short notes on any **five**. Each question carries 2 marks.

   (i) Important secondary sex characteristics in boys.

   (ii) Developmental tasks of adolescence.

   (iii) Emotionality during adolescence

   (iv) Common danger signals of adolescent maladjustment.

   (v) Developmental tasks of late adulthood.

   (vi) Role of school and teachers as counselor for adolescents.

2. "Young adulthood is the period of transition from carefree life to life full of responsibilities." Comment.

3171(2518)/CTT-37395   1   **(Contd.)**

3. Throw light on various parenting techniques employed by the parents to discipline children. Which parenting technique is most acknowledged for the healthy development of the child's personality ?

4. Describe midlife changes in men and women. Suggest ways and means to cope up with these changes.

5. Discuss adjustments to changes in family life in old age including relationships with spouse, offspring and grandchildren.

6. Discuss some important conditions contributing to happiness in old age.

7. Discuss the concept of planned old age with special emphasis on preparation for retirement.

8. How great is mental decline in old age ? Discuss various mental changes in old age.

Exam. Code : 108204

Subject Code : 2771

B.Sc. (Home Science) 4th Semester

QUANTITY FOOD PRODUCTION & SERVICE

Paper—III

Time Allowed—3 Hours] [Maximum Marks—60

Note :— (1) Attempt only **FIVE** questions (**12** marks for each question).

(2) Question No. **1** is compulsory.

1. Write short notes on :—

   (a) Decoration of service area.

   (b) Self Service.

   (c) Assistant Service.

   (d) Table Sizes.

   (e) Portion size of recipe.

   (f) Gross Profit ratio.

2. Define Hospitality industry in detail.

3. Define "quality of foods". What are different aspects of quality ? Describe them in detail.

4. What are important features to be considered while planning Service Area ?

3173(2518)/CTT-37397 1 (Contd.)

5. Describe some large quantity cooking techniques.

6. Describe in detail importance of personal hygiene of food handler.

7. How will you handle solid and liquid wastes ?

8. Describe different types of food production systems and production process in detail.

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Subject Code : 2772

B.Sc. (Home Science) 4th Semester

TRADITIONAL EMBROIDERIES, TEXTILES & COSTUMES OF INDIA

Paper—IV

Time Allowed—3 Hours]   [Maximum Marks—60

Note :— (1) Attempt any **FIVE** questions.

(2) All questions carry equal marks.

I.   Discuss different types of 'Phulkari's. Explain the difference between a Phulkari and Bagh.   12

II.   Explain the fabric, colours, stitches, threads, themes and motifs used in Kantha.   12

III. What are the peculiar features of Kasuti of Karnatka ?   12

IV.   Describe why the shawls of Kashmir are famous world over ?   12

V.   Draw a comparison between the Patolas, Ikat and Pochampalli.   12

VI.   Where and how is the 'Bandhani' work done ?   12

VII. Differentiate between the costumes of women of Rajasthan and Gujarat.   12

VIII. Explain in detail the costumes worn by men of Jammu & Kashmir.   12

Exam. Code : 108204
Subject Code : 2774

B.Sc. (Home Science) 4th Semester

APPLIED PHYSICS

Paper—VI

Time Allowed—3 Hours] [Maximum Marks—30

Note :—Attempt **FIVE** questions only. Question No. **1** is compulsory.

1. (a) Differentiate between reflection and refraction of light.

   (b) What is wave length range of x-rays and microwaves ?

   (c) What is meant by dispersion of light ?

   (d) Name S.I. Units of intensity of illumination.

   (e) What is the use of Energy meter ?

   (f) What is magnetic effect of electric current ?

   $1 \times 6 = 6$

2. (a) What is Thermo state ? What are its uses ?   3

   (b) State the Snell's law of refraction and define absolute refractive index of a medium. What do you understand by the statement 'the refractive index of glass is 1.5 for white light ?   3

3. (a) What are the differences between CFL and incandescent lamps ?   2

   (b) State various uses of electromagnetic radiations. 4

3176(2518)/CTT-37400   1   (Contd.)

4. (a) What is meant by electric potential ? Differentiate between terminal potential difference and e.m.f. of source.

4

(b) In an electric wiring switches are always connected with live wire, explain why ?

2

5. (a) What is heating effect of electric current ? State its advantages and disadvantages in household devices.

4

(b) Explain the intensity levels of light in different parts of home.

2

6. What is function of a transformer in an a.c. circuit ? How do the input and output powers in a transformer compare ? Name the three kinds of energy losses that take place in the core of a transformer. How are they minimized ?

6

7. (a) Define the term electric current and state its S.I. unit.

2

(b) State ohm's law. What are the necessary conditions for in conductor to obey ohm's law ? Describe an experiment with a neat labeled circuit diagram to verify ohm's law.

4

8. (a) What causes the twinkling of stars at night ?   2

(b) During sunset and sunrise, the sun is seen even when it is slightly below the horizon. Explain the phenomenon responsible for it.

4

3176(2518)/CTT-37400   2   **100**

Exam. Code : 108204
Subject Code : 2775

B.Sc. (Home Science) 4th Semester

APPLIED CHEMISTRY

Paper—VII

Time Allowed—Three Hours]   [Maximum Marks—30

Note :— Attempt any **FIVE** questions. Question No. **1** is compulsory. Each question carries **6** marks.

1. (a) Write the structure of Tartaric Acid.
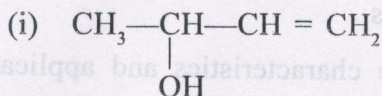
    (b) Write the advantages of gaseous fuel.

    (c) Write the formula of polyethene.
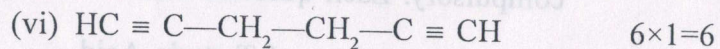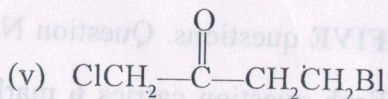
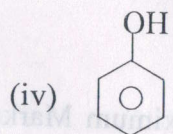   (d) Write the full form of LAS detergents.
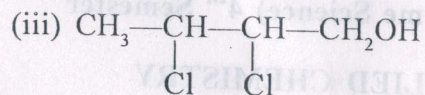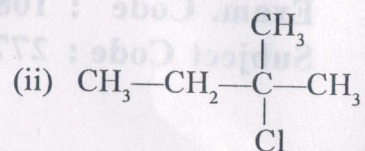
    (e) What are invert soaps ?

    (f) Write the use of Taflon.   6×1=6

2. Write the IUPAC names of the following :

    (i) $CH_3—CH—CH = CH_2$
              $|$
              OH

(ii)
$$CH_3-CH_2-\underset{\underset{Cl}{|}}{\overset{\overset{CH_3}{|}}{C}}-CH_3$$

(iii)
$$CH_3-\underset{\underset{Cl}{|}}{CH}-\underset{\underset{Cl}{|}}{CH}-CH_2OH$$

(iv)
phenol (OH on benzene ring)

(v)
$$ClCH_2-\overset{\overset{O}{\|}}{C}-CH_2CH_2Bl$$

(vi) $HC \equiv C-CH_2-CH_2-C \equiv CH$ \hspace{1cm} 6×1=6

3. Write the reaction and structure of following polymers :

   (a) Bakelite

   (b) Nylon 6, 6

   (c) Polystyrene. \hspace{1cm} 3×2=6

4. (a) Write the formula of sodium metabisulphite. For what purpose it is used in foods ?

   (b) What do you mean by saponification ? 2×3=6

5. (a) What is CNG ? Mention its advantages over gaseous fuels.

   (b) Describe the characteristics and application of kerosene. \hspace{1cm} 2×3=6

6. What do you mean by cleansing agents ? Write the classification of synthetic detergents with examples.

   \hspace{1cm} 6

7. Write a note on with their structure :

   (a) Natural Rubber

   (b) Vulcanized Rubber. \hspace{1cm} 2×3=6

8. Write the difference between :

   (a) Thermosetting and thermoplastics polymers

   (b) Addition polymerisation and condensation polymerisation. \hspace{1cm} 2×3=6